

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/575,294  
Source: IFWP  
Date Processed by STIC: 4/24/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/575,294

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1        Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2        Invalid Line Length     The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
  
- 3        Misaligned Amino  
    Numbering            The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
  
- 4        Non-ASCII            The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
  
- 5   J   Variable Length        Sequence(s)   33   contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6        PatentIn 2.0  
    "bug"                A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)           . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
  
- 7        Skipped Sequences  
    (OLD RULES)         Sequence(s)        missing. If intentional, please insert the following lines for **each** skipped sequence:  
                          (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                          (i)       SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                          (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                          This sequence is intentionally skipped  
  
                          Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
  
- 8        Skipped Sequences  
    (NEW RULES)         Sequence(s)        missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
                          <210> sequence id number  
                          <400> sequence id number  
                          000
  
- 9        Use of n's or Xaa's  
    (NEW RULES)         Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                          Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
                          In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
  
- 10        Invalid <213>  
    Response            Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
  
- 11        Use of <220>         Sequence(s)        missing the <220> "Feature" and associated numeric identifiers and responses.  
                          Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
                          (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
  
- 12        PatentIn 2.0  
    "bug"                Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13        Misuse of n/Xaa        "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFWP

## RAW SEQUENCE LISTING

DATE: 04/24/2006

PATENT APPLICATION: US/10/575,294

TIME: 16:17:36

Input Set : A:\03-956-PCT.ST25.txt

Output Set: N:\CRF4\04242006\J575294.raw

3 <110> APPLICANT: Brophy, Colleen  
 4       Furnish, Elizabeth  
 5       Komalavilas, Padmini  
 6       Dreiza, Catherine  
 7       Lokesh, Joshi  
 8       Panitch, Alyssa  
 10 <120> TITLE OF INVENTION: Novel Heat Shock Protein 20-Related Polypeptides  
 and Uses  
 11       Therefor  
 13 <130> FILE REFERENCE: 03-956-PCT  
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/575,294  
 C--> 15 <141> CURRENT FILING DATE: 2006-04-12  
 15 <150> PRIOR APPLICATION NUMBER: 60/512,211  
 16 <151> PRIOR FILING DATE: 2003-10-17  
 18 <150> PRIOR APPLICATION NUMBER: 60/530,306  
 19 <151> PRIOR FILING DATE: 2003-12-16  
 21 <160> NUMBER OF SEQ ID NOS: 55  
 23 <170> SOFTWARE: PatentIn version 3.3  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 6  
 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Artificial sequence  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: Synthetic polypeptide  
 33 <400> SEQUENCE: 1  
 35 Arg Arg Ala Ser Ala Pro  
 36 1                   5  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 7  
 41 <212> TYPE: PRT  
 42 <213> ORGANISM: Artificial sequence  
 44 <220> FEATURE:  
 45 <223> OTHER INFORMATION: Synthetic peptide  
 47 <400> SEQUENCE: 2  
 49 Leu Arg Arg Ala Ser Ala Pro  
 50 1                   5  
 53 <210> SEQ ID NO: 3  
 54 <211> LENGTH: 8  
 55 <212> TYPE: PRT  
 56 <213> ORGANISM: Artificial sequence  
 58 <220> FEATURE:  
 59 <223> OTHER INFORMATION: Synthetic peptide  
 61 <400> SEQUENCE: 3  
 63 Trp Leu Arg Arg Ala Ser Ala Pro

Does Not Comply  
Corrected Diskette Needed

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/575,294

DATE: 04/24/2006

TIME: 16:17:36

Input Set : A:\03-956-PCT.ST25.txt

Output Set: N:\CRF4\04242006\J575294.raw

```
64 1          5
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 6
69 <212> TYPE: PRT
70 <213> ORGANISM: Artificial sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: Synthetic peptide
75 <400> SEQUENCE: 4
77 Arg Arg Ala Thr Ala Pro
78 1          5
81 <210> SEQ ID NO: 5
82 <211> LENGTH: 7
83 <212> TYPE: PRT
84 <213> ORGANISM: Artificial sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Synthetic peptide
89 <400> SEQUENCE: 5
91 Leu Arg Arg Ala Thr Ala Pro
92 1          5
95 <210> SEQ ID NO: 6
96 <211> LENGTH: 8
97 <212> TYPE: PRT
98 <213> ORGANISM: Artificial sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Synthetic peptide
103 <400> SEQUENCE: 6
105 Trp Leu Arg Arg Ala Thr Ala Pro
106 1          5
109 <210> SEQ ID NO: 7
110 <211> LENGTH: 6
111 <212> TYPE: PRT
112 <213> ORGANISM: Artificial sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Synthetic peptide
117 <400> SEQUENCE: 7
119 Arg Arg Ala Tyr Ala Pro
120 1          5
123 <210> SEQ ID NO: 8
124 <211> LENGTH: 7
125 <212> TYPE: PRT
126 <213> ORGANISM: Artificial sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Synthetic peptide
131 <400> SEQUENCE: 8
133 Leu Arg Arg Ala Tyr Ala Pro
134 1          5
137 <210> SEQ ID NO: 9
138 <211> LENGTH: 8
139 <212> TYPE: PRT
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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/575,294

DATE: 04/24/2006

TIME: 16:17:36

Input Set : A:\03-956-PCT.ST25.txt

Output Set: N:\CRF4\04242006\J575294.raw

```

140 <213> ORGANISM: Artificial sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Synthetic peptide
145 <400> SEQUENCE: 9
147 Trp Leu Arg Arg Ala Tyr Ala Pro
148 1      5
151 <210> SEQ ID NO: 10
152 <211> LENGTH: 6
153 <212> TYPE: PRT
154 <213> ORGANISM: Artificial sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Synthetic peptide
159 <400> SEQUENCE: 10
161 Arg Arg Ala Asp Ala Pro
162 1      5
165 <210> SEQ ID NO: 11
166 <211> LENGTH: 7
167 <212> TYPE: PRT
168 <213> ORGANISM: Artificial sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: Synthetic peptide
173 <400> SEQUENCE: 11
175 Leu Arg Arg Ala Asp Ala Pro
176 1      5
179 <210> SEQ ID NO: 12
180 <211> LENGTH: 8
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Synthetic peptide
187 <400> SEQUENCE: 12
189 Trp Leu Arg Arg Ala Asp Ala Pro
190 1      5
193 <210> SEQ ID NO: 13
194 <211> LENGTH: 6
195 <212> TYPE: PRT
196 <213> ORGANISM: Artificial sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Synthetic peptide
201 <400> SEQUENCE: 13
203 Arg Arg Ala Glu Ala Pro
204 1      5
207 <210> SEQ ID NO: 14
208 <211> LENGTH: 7
209 <212> TYPE: PRT
210 <213> ORGANISM: Artificial sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Synthetic peptide
215 <400> SEQUENCE: 14

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/575,294

DATE: 04/24/2006

TIME: 16:17:36

Input Set : A:\03-956-PCT.ST25.txt

Output Set: N:\CRF4\04242006\J575294.raw

```

217 Leu Arg Arg Ala Glu Ala Pro
218 1 5
221 <210> SEQ ID NO: 15
222 <211> LENGTH: 8
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Synthetic peptide
229 <400> SEQUENCE: 15
231 Trp Leu Arg Arg Ala Glu Ala Pro
232 1 5
235 <210> SEQ ID NO: 16
236 <211> LENGTH: 12
237 <212> TYPE: PRT
238 <213> ORGANISM: Artificial sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Synthetic peptide
243 <400> SEQUENCE: 16
245 Arg Arg Ala Ser Ala Pro Arg Arg Ala Ser Ala Pro
246 1 5 10
249 <210> SEQ ID NO: 17
250 <211> LENGTH: 14
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Synthetic peptide
257 <400> SEQUENCE: 17
259 Leu Arg Arg Ala Ser Ala Pro Leu Arg Arg Ala Ser Ala Pro
260 1 5 10
263 <210> SEQ ID NO: 18
264 <211> LENGTH: 16
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Synthetic peptide
271 <400> SEQUENCE: 18
273 Trp Leu Arg Arg Ala Ser Ala Pro Trp Leu Arg Arg Ala Ser Ala Pro
274 1 5 10 15
277 <210> SEQ ID NO: 19
278 <211> LENGTH: 12
279 <212> TYPE: PRT
280 <213> ORGANISM: Artificial sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Synthetic peptide
285 <400> SEQUENCE: 19
287 Arg Arg Ala Thr Ala Pro Arg Arg Ala Thr Ala Pro
288 1 5 10
291 <210> SEQ ID NO: 20
292 <211> LENGTH: 14

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## RAW SEQUENCE LISTING

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TIME: 16:17:36

Input Set : A:\03-956-PCT.ST25.txt

Output Set: N:\CRF4\04242006\J575294.raw

293 <212> TYPE: PRT  
294 <213> ORGANISM: Artificial sequence  
296 <220> FEATURE:  
297 <223> OTHER INFORMATION: Synthetic peptide  
299 <400> SEQUENCE: 20  
301 Leu Arg Arg Ala Thr Ala Pro Leu Arg Arg Ala Thr Ala Pro  
302 1 5 10  
305 <210> SEQ ID NO: 21  
306 <211> LENGTH: 16  
307 <212> TYPE: PRT  
308 <213> ORGANISM: Artificial sequence  
310 <220> FEATURE:  
311 <223> OTHER INFORMATION: Synthetic peptide  
313 <400> SEQUENCE: 21  
315 Trp Leu Arg Arg Ala Thr Ala Pro Trp Leu Arg Arg Ala Thr Ala Pro  
316 1 5 10 15  
319 <210> SEQ ID NO: 22  
320 <211> LENGTH: 12  
321 <212> TYPE: PRT  
322 <213> ORGANISM: Artificial sequence  
324 <220> FEATURE:  
325 <223> OTHER INFORMATION: Synthetic peptide  
327 <400> SEQUENCE: 22  
329 Arg Arg Ala Tyr Ala Pro Arg Arg Ala Tyr Ala Pro  
330 1 5 10  
333 <210> SEQ ID NO: 23  
334 <211> LENGTH: 14  
335 <212> TYPE: PRT  
336 <213> ORGANISM: Artificial sequence  
338 <220> FEATURE:  
339 <223> OTHER INFORMATION: Synthetic peptide  
341 <400> SEQUENCE: 23  
343 Leu Arg Arg Ala Tyr Ala Pro Leu Arg Arg Ala Tyr Ala Pro  
344 1 5 10  
347 <210> SEQ ID NO: 24  
348 <211> LENGTH: 16  
349 <212> TYPE: PRT  
350 <213> ORGANISM: Artificial sequence  
352 <220> FEATURE:  
353 <223> OTHER INFORMATION: Synthetic peptide  
355 <400> SEQUENCE: 24  
357 Trp Leu Arg Arg Ala Tyr Ala Pro Trp Leu Arg Arg Ala Tyr Ala Pro  
358 1 5 10 15  
361 <210> SEQ ID NO: 25  
362 <211> LENGTH: 12  
363 <212> TYPE: PRT  
364 <213> ORGANISM: Artificial sequence  
366 <220> FEATURE:  
367 <223> OTHER INFORMATION: Synthetic peptide

<210> 33  
<211> 4  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Synthetic peptide

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> Xaa is R, (RR) (RRR) (RRRR) (RRRRR) or (RRRRRR)  
<400> 33

Arg Arg Arg Xaa  
1

*Xaa can only represent a single*

*amino acid*

*(see item 5 on*

*Error Summary*

*Sheet)*



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/575,294

DATE: 04/24/2006  
TIME: 16:17:38

Input Set : A:\03-956-PCT.ST25.txt  
Output Set: N:\CRF4\04242006\J575294.raw

*FYI*  
Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:33; Xaa Pos. 4  
Seq#:54; Xaa Pos. 4  
Seq#:55; Xaa Pos. 3,4,5

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/575,294

DATE: 04/24/2006

TIME: 16:17:38

Input Set : A:\03-956-PCT.ST25.txt

Output Set: N:\CRF4\04242006\J575294.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0

L:817 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0

L:847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0